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Please amend the above-identified application as follows:

IN THE CLAIMS:

Please cancel claims 1-6, 18-28, 30, 46, 48, 51, 55, 62 and 64, without prejudice or disclaimer. Please amend the claims pursuant to 37 C.F.R. 1.121 as follows (see the accompanying "marked up" version pursuant to 1.121):

47. (Amended) An isolated nucleic acid which encodes human presenilin-associated membrane protein (PAMP) (SEQ ID NO:14).

49. (Amended) The isolated nucleic acid of claim 47, which comprises a nucleotide sequence encoding human PAMP (SEQ ID NO:13).

50. (Amended) A vector comprising the nucleic acid of claim 47, operatively associated with an expression control sequence.

52. (Amended) An isolated cell transfected with a vector, which vector comprises a nucleic acid encoding a function-conservative variant of human PAMP having at least 60% amino acid identity to SEQ ID NO: 14 and being capable of interacting with a presenilin.

53. (Amended) The isolated cell of claim 52, wherein the nucleic acid comprises a nucleotide sequence encoding human PAMP (SEQ ID NO:13).

54. (Amended) A method for producing a function-conservative variant of human PAMP, which method comprises culturing the cell of claim 52 under conditions that permit expression of the PAMP variant.

56. (Amended) An isolated nucleic acid encoding a mutant PAMP, wherein the mutant PAMP has a mutation in an amino acid residue corresponding to an amino acid selected from the group consisting of C230, D336, Y337, and both D336 and Y337, of human PAMP (SEQ ID NO:14).

59. (Amended) A vector comprising the nucleic acid of claim 56, operatively associated with an expression control sequence.

60. (Amended) An isolated cell transfected with the vector of claim 59.

63. (Amended) The isolated cell of claim 52, wherein the human PAMP has SEQ ID NO: 14.

65. (Amended) A method for producing human PAMP, which method



PENDING CLAIMS AS OF September 12, 2002
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47. An isolated nucleic acid which encodes human presenilin-associated membrane protein (PAMP) (SEQ ID NO:14).

49. The isolated nucleic acid of claim 47, which comprises a nucleotide sequence encoding human PAMP (SEQ ID NO:13).

50. A vector comprising the nucleic acid of claim 47, operatively associated with an expression control sequence.

52. An isolated cell transfected with a vector, which vector comprises a nucleic acid encoding a function conservative variant of human PAMP having at least 60% amino acid identity to SEQ ID NO: 14 and being capable of interacting with a presenilin.

53. The isolated cell of claim 52, wherein the nucleic acid comprises a nucleotide sequence encoding human PAMP (SEQ ID NO:13).

54. A method for producing a function conservative variant of human

PAMP, which method comprises culturing the cell of claim 52 under conditions that permit expression of the PAMP variant.

56. An isolated nucleic acid encoding a mutant PAMP, wherein the mutant PAMP has a mutation in an amino acid residue corresponding to an amino acid selected from the group consisting of C230, D336, Y337, and both D336 and Y337, of human PAMP (SEQ ID NO:14).

57. The isolated nucleic acid of claim 56, wherein the mutation is selected from the group consisting of C230A, D336A, Y337A, and both D336A and Y337A.

58. The isolated nucleic acid of claim 55, wherein the mutant PAMP has a deletion of an amino acid sequence corresponding to an amino acid sequence selected from the group consisting of ?312-369 and ?312-340 of human PAMP (SEQ ID NO:14).

59. A vector comprising the nucleic acid of claim 56, operatively associated with an expression control sequence.

60. An isolated cell transfected with the vector of claim 59.

61. A method for producing mutant PAMP, which method comprises culturing the cell of claim 60 under conditions that permit expression of the mutant PAMP.

63. The isolated cell of claim 62, wherein the nucleic acid encodes SEQ ID NO: 14.

65. A method for producing human PAMP, which method comprises culturing the cell of claim 63 under conditions that permit expression of the human PAMP.